

DISCONTINUED

Seapath™ 100



KONGSBERG

Integrated Heading, Attitude and Positioning Sensor

The Seatex Seapath 100 blends the best features of strapdown inertial navigation systems and GPS positioning into a robust and cost effective integrated position, velocity, attitude and heading sensor. The Seapath 100 replaces several vessel instruments with one accurate and compact navigation package (gyrocompass, GPS system, speed log and motion sensor). Based on the proven Seapath 200 product used extensively in the offshore and hydrographic industries, the Seapath 100 utilises a more cost effective motion sensor (MRU H) and shorter GPS antenna baseline to reduce the overall system cost.

Versatile technology

The Seapath uses two elements to determine vessel heading, position, velocity and motion information, a GPS element and an inertial element. Precision heading is derived from a fixed-baseline dual GPS antenna arrangement, using carrier phase data to generate heading information independent of latitude and vessel dynamics. Heading supplied from this integrated solution yields better accuracy than a conventional gyrocompass. GPS position and velocity is calculated from both of the GPS antennas and gives a redundant system. DGPS signals may be input to the Seapath to improve position and velocity accuracies.

The inertial sensor element of the Seapath provides precise, real-time orientation and linear acceleration data even in dynamic environments. Velocity data from the GPS element updates the inertial sensor and minimises sensor errors due to vessel turns and manoeuvres. In case of short GPS outages, the inertial sensor automatically takes over as the prime source, using its internal sensors to calculate heading and position until the GPS comes back on line. Working together seamlessly, the inertial and GPS elements of the Seapath system insure accurate, continuous and robust heading, position and motion information.

The Seapath requires no scheduled maintenance or recalibration. Seapath offers flexible configuration of the output variables and interface set-up, depending on the vessel and application. It is easy to operate, install and calibrate.



ADCP Work

An application example that can take advantage of this cost effective product is high accuracy ADCP (Acoustic Doppler Current Profiler) work at deep waters without a bottom track. By determining the vessel's velocity from the integrated DGPS and inertial system, the Seapath 100 measures vessel velocity at a high update rate with an accuracy of 0.05 m/s RMS, independent of environmental conditions at any depth. The Seapath 100 offers all the measurements required to achieve accurate ADCP measurements for all depths and even during difficult weather conditions.

Typical applications

- Vessel mounted ADCP motion compensation
- High speed vessel navigation
- Echo sounders and sonar motion compensation
- Vessel position and attitude monitoring

Seatex Seapath 100 Manual

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Table of Contents Seatex Seapath 100 Manual

1. Understanding the eBook Seatex Seapath 100 Manual
 - The Rise of Digital Reading Seatex Seapath 100 Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Seatex Seapath 100 Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Seatex Seapath 100 Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Seatex Seapath 100 Manual
 - Personalized Recommendations

- Seatex Seapath 100 Manual User Reviews and Ratings
- Seatex Seapath 100 Manual and Bestseller Lists
- 5. Accessing Seatex Seapath 100 Manual Free and Paid eBooks
 - Seatex Seapath 100 Manual Public Domain eBooks
 - Seatex Seapath 100 Manual eBook Subscription Services
 - Seatex Seapath 100 Manual Budget-Friendly Options
- 6. Navigating Seatex Seapath 100 Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Seatex Seapath 100 Manual Compatibility with Devices
 - Seatex Seapath 100 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Seatex Seapath 100 Manual
 - Highlighting and Note-Taking Seatex Seapath 100 Manual
 - Interactive Elements Seatex Seapath 100 Manual
- 8. Staying Engaged with Seatex Seapath 100 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Seatex Seapath 100 Manual
- 9. Balancing eBooks and Physical Books Seatex Seapath 100 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Seatex Seapath 100 Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Seatex Seapath 100 Manual
 - Setting Reading Goals Seatex Seapath 100 Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Seatex Seapath 100 Manual
 - Fact-Checking eBook Content of Seatex Seapath 100 Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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